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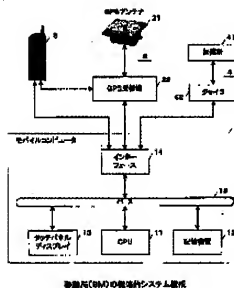
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(54) HYBRID POSITIONING SYSTEM AND RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a hybrid positioning system which can realize a highly accurate positioning by using also a supplementary measuring system such as a portable communication network for positioning of a VRS method.

SOLUTION: In the hybrid positioning system, a GPS receiving mechanism 2 receives GPS satellite information from artificial satellites, and a portable communication terminal 3 receives GPS correction information of the VRS method from a VRS information delivery server, and at the same time, receives radio wave information from a plurality of mobile communication antenna stations as well. A body system 1 carries out GPS positioning based on the GPS satellite information and the GPS correction information, and at the same time, carries out mobile communication positioning based on the radio wave information.



According to a normal positioning condition, a positioning position by the GPS positioning is adopted as a position of the mobile station, and a positioning position by the mobile communication positioning is calibrated by the highly accurate GPS positioning position. When the condition becomes poor, a calibrated mobile communication positioning position is supplementally adopted as the position of the mobile station. When the condition is poorer, supplementary measuring with the utilization of a gyro mechanism 4 is carried out.